(19) World Intellectual Property **Organization**

International Bureau





(43) International Publication Date 15 September 2005 (15.09.2005)

PCT

(10) International Publication Number WO 2005/085606 A1

- F01M 13/04, (51) International Patent Classification⁷: B01D 45/16
- (21) International Application Number:

PCT/EP2005/002431

- (22) International Filing Date: 8 March 2005 (08.03.2005)
- (25) Filing Language: English
- English (26) Publication Language:
- (30) Priority Data:

8 March 2004 (08.03.2004)	DE
8 March 2004 (08.03.2004)	DE
30 July 2004 (30.07.2004)	DE
30 July 2004 (30.07.2004)	US
	8 March 2004 (08.03.2004) 30 July 2004 (30.07.2004)

- (71) Applicant (for all designated States except US): REINZ-**DICHTUNGS-GMBH** [DE/DE]; Reinzstrasse 3-7, 89233 Neu-Ulm (DE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): WAGNER, Jürgen [DE/DE]; Gartenweg 48, 89176 Asselfingen (DE). PRASKA, Armin [DE/DE]; Kettelerstrasse 60, 97222 Rimpar (DE). GRAFL, Dieter [DE/DE]; Maienweg 164, 89081 Ulm (DE). LEMKE, Kai-Uwe [DE/DE]; Heckenbühl 46, 89075 Ulm (DE).
- (74) Agent: PFENNING MEINIG & PARTNER GbR; Mozartstrasse 17, 80336 München (DE).

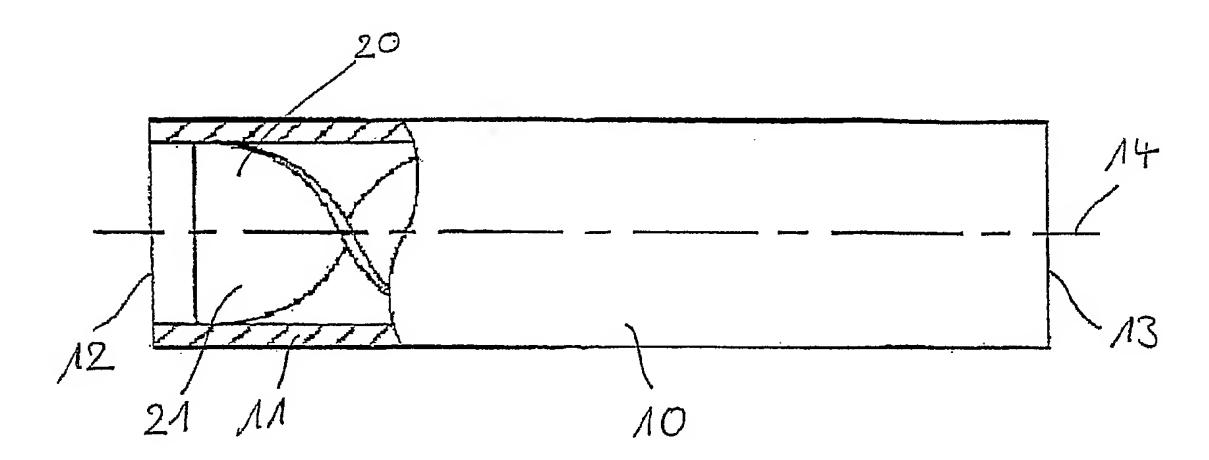
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CYLINDER HEAD COVER WITH OIL SEPARATOR



(57) Abstract: The present invention relates to a cylinder head cover for covering a cylinder head of a combustion engine. Such cylinder head covers often comprise an oil separator for separating oil and/or oil spray from the blow-by gas of combustion engines. With the present invéntion the oil separator is formed as a flow-through tube (10) through which the gas with the oil and/or oil spray to be separated flows. The flow-through tube (10) with its longitudinal axis (14) in the flow-through direction lies essentially in the plane of extension of the cylinder head cover (1). A worm-like segment is arranged in the flow-through tube (10), and its thread surfaces (21) form a spiral flow path (2). At the same time the cross section of the flow path lies between 1 mm2 and 800 mm2.

